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requesting a data communication service, for storing data generated by terminal equipment at said mobile wireless station set;

means for segmenting said data in at least one core unit, each core unit exclusively comprising a payload of predetermined size;

means for selecting said dedicated control channel and said Supplementary channel of said radio link to transmit said data to said digital cellular mobile telecommunication network; and

means for packaging said at least one core unit into a radio link protocol to transmit said data to said digital cellular mobile telecommunication network via said dedicated control channel and said Supplementary channel of said radio link.

7. A method for providing a mobile wireless station set with high speed data transmission capability by using the dedicated control channel and the Supplementary channel of a radio link that interconnects said mobile wireless station set with a digital cellular mobile telecommunication network, comprising the steps of:

storing in a memory, in response to a subscriber at said mobile wireless station set requesting a data communication service, data generated by terminal equipment at said mobile wireless station set;

segmenting said data in at least one core unit, each core unit exclusively comprising a payload of predetermined size;

selecting said dedicated control channel and said Supplementary channel of said radio link to transmit said data to said digital cellular mobile telecommunication network; and

packaging said at least one core unit into a radio link protocol to transmit said data to said digital cellular mobile telecommunication network via said dedicated control channel and said Supplementary channel of said radio link.

Serial No. 09/663,453 Response to Office Action dated 12/02/2002 Doc. 11313v1, page 2 of 6